

PC5 - PC10 - PC20 switchmode power converters



- 24 VDC to 12 VDC
- 5 – 10 – 20A output current
- Over-voltage protection
- Reversed-polarity protection
- Overload-protection
- Protection against idling

Description

This switchmode power converter is built without galvanic isolation between the input and the output. Due to its 50 kHz switching frequency, the internal components are small in size. Furthermore, with its 85% efficiency, low heat emission and small mechanical dimensions these units stand out among other conventional converters.

The power converter is protected against short-circuit, reversed-polarity, overloading and idling.

Application area

This power converter can be applied wherever the 24 V DC power needs to be converted into 12 V DC power, such as industrial, automotive, solar and marine application.

Specifications

Type	PC5	PC10	PC20
	24 / 12V, 5A DC	24 / 12V, 10A DC	24 / 12V, 20A DC
Input voltage:	18 - 32V DC	18 - 32V DC	18 - 32V DC
Output voltage:	13,8 V \pm 3%		
Output current:	5A	10A	20A
Efficiency:	85%		
Short circuit current:	6A max.	12A max.	22A max.
Spikes:	100 mV _{ss}		
Fuse:	5A	10A	20A
Conformal coating against humidity and vibration:	Optional	Standard	Optional
Weight:	approx. 240 g	approx. 300 g	approx. 400 g
Dimensions (L x W x H):	125 x 57 x 50 mm	125 x 59 x 50 mm	185 x 75 x 60 mm
Operating temperature:	- 20 °C ... + 50 °C		
Storing temperature:	- 40 °C ... + 70 °C		